

What is claimed:

1. A folding mobile phone, comprising:

a panel housing;

a motherboard housing, having a pivot portion and hingedly
5 connected with said panel housing by said pivot portion; and

a blocker, including a sliding track and a blocking
mechanism; wherein said sliding track is mounted at said motherboard
housing, perpendicular to a rotation axis of said pivot portion and
including a first brake location and a second brake location, and said blocking
10 mechanism moves back and forth on said sliding track to interfere
respectively at said first brake location and said second brake location;

wherein when said blocking mechanism moves to said first brake location of
said sliding track, said blocking mechanism produces a first
15 interference in said pivot portion such that said panel housing and said
motherboard housing are unfolded at a first angle, and when said
blocking mechanism moves to said second brake location of said sliding
track, said blocking mechanism produces a second interference in
said pivot portion such that said panel housing and said motherboard
20 housing are unfolded at a second angle.

2. The folding mobile phone of Claim 1, further including a
braking means which brakes said blocking mechanism when said
blocking mechanism of said blocker moves to said first brake location.

3. The folding mobile phone of Claim 2, wherein said blocker further including a first spring which pushes said blocking mechanism to said second brake location after said blocking mechanism is released from said braking means.

4. The folding mobile phone of Claim 2, wherein said braking means comprises a slide rail, a wedge slider and a second spring, wherein said wedge slider moves back and forth between a first position and a second position of said slide rail, in parallel with the rotation axis of said pivot portion, and said second spring pushes said wedge slider to said first position to brake said blocking mechanism when said blocking mechanism moves to said first brake location.

5. The folding mobile phone of Claim 4, wherein a slot corresponding to said wedge slider is disposed at the lateral of said blocking mechanism and said wedge slider is inserted into said slot of said blocking mechanism when said blocking mechanism moves to said first brake location.

6. The folding mobile phone of Claim 1, wherein said blocking mechanism is disposed at the interior side of said motherboard housing and an angle adjustment knob is disposed at the exterior side of said motherboard housing to be combined to said blocking mechanism such that said angle adjustment knob can be pushed by a user

from the outside of said motherboard housing to drive said blocking mechanism to simultaneously move on said sliding track so as to adjust the unfolding angle between said panel housing and said motherboard housing.

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7. The folding mobile phone of Claim 4, wherein said wedge slider is disposed at the interior side of said motherboard housing, adjacent to said blocking mechanism and a brake knob is disposed at the exterior side of said motherboard housing to be combined to said wedge slider such that said brake knob can be pushed by a user from the outside of said motherboard housing to moves synchronously with said wedge slider on said slide rail so as to brake the unfolding angle between said panel housing and said motherboard housing.

15 8. The folding mobile phone of Claim 1, wherein the inner surface of said panel housing is stacked on the inner surface of said motherboard housing face to face when said folding mobile phone is in a closed position.

20 9. The folding mobile phone of Claim 1, wherein a fixed blocking mechanism is mounted at the exterior side of said motherboard housing and produces less interference in said pivot portion than said first interference produced by said blocking mechanism at said first brake location.

10. A folding mobile phone, comprising:
a first housing;
a second housing, having a pivot portion and hingedly
5 connected with said first housing by said pivot portion; and
a blocker selectively interferes with said first housing at
a first brake location and a second brake location;

wherein when said blocker interferes with said first housing at said first brake
10 location, said first housing and said second housing are unfolded at a first
angled, and when said blocker interferes with said first housing at said second
brake location, said first housing and the second housing are unfolded at a
second angle.

11. The folding mobile phone of Claim 10, wherein said blocker
15 comprises a sliding track substantially perpendicular to a rotation axis of said
pivot portion.

12. The folding mobile phone of Claim 11, wherein a blocking
mechanism is installed in said blocker and moves back and forth at said first
20 brake location and said second brake location on said sliding track to interfere
said first housing.

13. The folding mobile phone of Claim 12, wherein said folding mobile phone comprises a braking means which selectively brakes said blocking mechanism at said first brake location or said second brake location.

5 14. The folding mobile phone of Claim 13, wherein said blocker further comprises a first spring to push said blocking mechanism back to said second location after said blocking mechanism is released from said brake means.

10 15. The folding mobile phone of Claim 13, wherein said braking means comprises a slide rail parallel with said rotation axis, a wedge slider and a second spring pushes said wedge slider to move on said slide rail to brake said blocking mechanism.

15 16. The folding mobile phone of Claim 15, wherein a slot corresponding to said wedge slider is disposed at the lateral of said blocking mechanism and said wedge slider is inserted into said slot to brake said blocking mechanism.